

-1/12

Figure 1

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 VPYSALDKRSYLAKIGTTFGDDDHRIVLSHMKDQHRGIRTVREEFTVGDKSSRINIDR
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 TRITTRGANFNFD SRLAEQTLLKYGINYRHQEI KPQAF LNSKFSIPTTEKNGQKVDK
 PMEQQMKDRADEDTVHAYKLSNPTKTD TGVYVEAIHDI GDFTLTGGLRYDRFKVKTHD
 GKT VSSSNLNP SFGVIWQPHEHWSFSASHNYASRSPRLYDALQTHGKRGII SIADGTK
 AERARNT EIGFN YNDGTFAANGSYFWQTIKDALANPQNRHDSVAVREAVNAGYIKNHG
 YELGASYRTGGLTAKVG VSHSKPRFYDTHKDKLLSANPEFGAQVGRTWTASLAYRFQN
 PNLEIGWRGRYVQKATGSILAAGQKDRKGNLENVVRKGFVNDVFANWKPLGKDTLNV
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gcaacttcga	cggcttggtc	tcttacaacc	gcaacgatga	aaaagattac	gaagccggca	721
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Figure 2

MNAPFFRLSLLSLTLAAGFAHAAENNANVALDVTVTVGDRQGSK
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cgattcccta	aggtgctgaa					

Figure 3

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ggggcgatta	tcgtcaaaac	cgtcgatggc	caagacctgc	tcaaaggcct	ggataaaaaac	421
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catcccgaaa aaatgccgtc tgaaagcctt tcagacgg

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Figure 4

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 GKLENVVRKGFVNDI FANWKPLGKDTLNVNLSVNNVFNTFYYPHSQRWTNTLPDVG
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Reference molecule:	FA1				Homology
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Sequence 4:	H4476	1 - 698	(698 aa)		92%

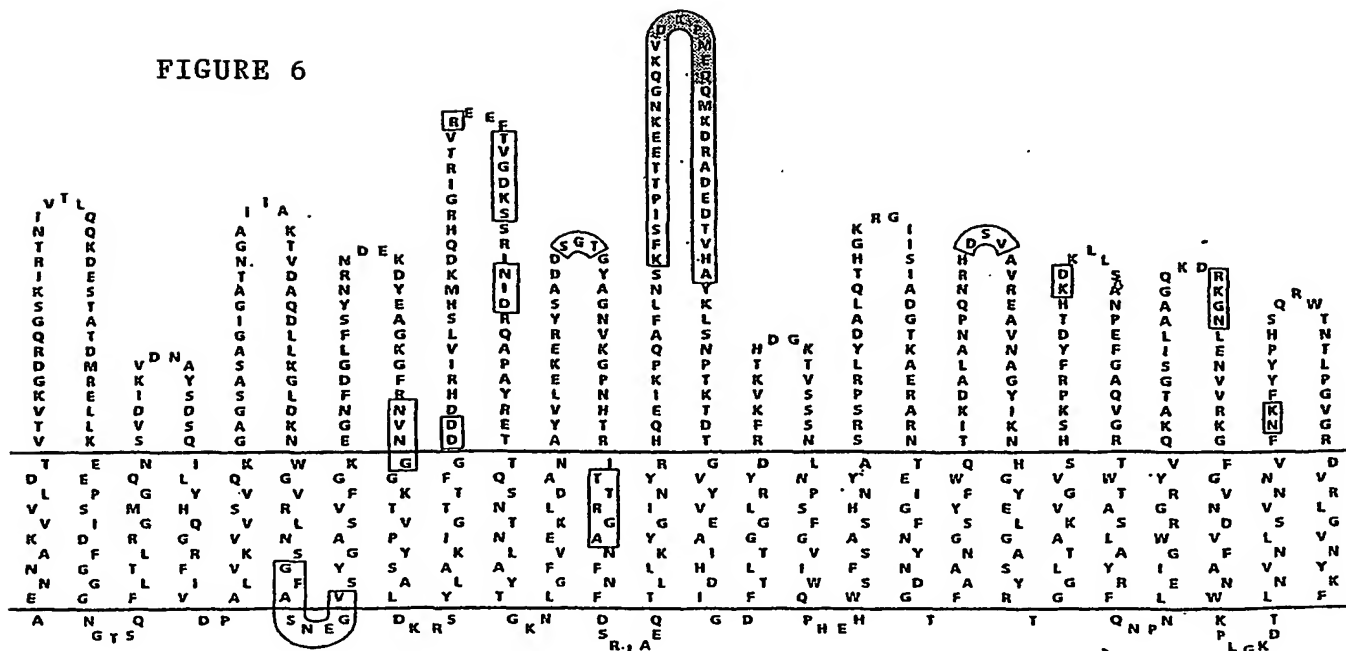
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AENXANVWALDVTYVKGDQQGSKIRTNVTLQKDRSTATDNRELLKEEPSIDFGGNGGTSGQFTLLBQWQ
.K.V.....
.K.....
.K.V.....
NSVDIKVDNAYSDSQTLYEQGRFIDVPALVKVVSQKGAGSASAGIGATNGALIAKTVDAQDLLKGLQKN
.....V.....G.....
WCVLNSGFACNNGASGYGASVFGKEGFDGLPSYNRNDEKDYEAGKGFRND-NGGKTPVYSALDKRSYLA
.PSDS.E.V.....N.....NF.....
.S.E.V.....V-T.....
.S.E.V.....V.....
XIGTTFGGGDRHIVLSHMKDQHRGIRTVREEFAVSEKSNRITIKROAPSRYRETTQSNLNAVTKDLCGV
.....T.GA.D.....N.....V.A.....N.....
.S.GD.....G.T..TN..LDLD..A.....
D.....T.GD.S.N.D.A.....N.....
EKLDAHAYVLEKXYSADDKKNYAGVKGPNTRIATSSYFNFDSLAQETLLKYLYNKHQIKPOA
.S.....SGT.....T.GA.....
.....T.G.....
.E.....SGT.....T.GA.....
FLNSEFEIKDKKAKATNEEK.....-KN.....-RENEKIAKAYLLTNPTKTDTGAYEIAHE
.Q.K.E.....D..N.....A.....
.K.S.PTT..KNGQDVA.....PADQQAQK..KD..ALVHS.....
.K.S.....-P.T..NQKVKKEHQMD..D.....AD.QTVR..K.S.....V.V.....D
IDGFTLTTGGLRYDRFKVKTHDGKTVSSSSLNPSFGVIMQPREHVSFSAASHNYAGRSPRLYDALQTHKRG
.....N.....H.....S.....S.....
.GD.....N.....H.....S.....
IISIDAGTKAERARNTIEIGFYNDGTIPAANGSYFRTIIDALANPQNRKDSVAVREANVAGYIKKHGYEL
.....G.....E.....R..W.....V.A.....
.....N.....
GASYRTGGLTAXKVGVSHSKPRFYDTHUDKLLSANPEFGAQVGRITASLAYRFKNFLLEIGWBGRYVQKA
.....PK.....
.....Q.....
.....Q.....
VGSILAAGCKDRDCKLENVVRQGVNDVFANWPKLGKDTLMNVLSVMNVDFKFYYPHSQRWNTILPGCV
.V.....N.....K.....I.....
.V.....N.....K.....H.....NT.....D.....
.T.....K.N.....N.....
RDVRLGVNYXF
.....
.....

```

FIGURE 5

FIGURE 6



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FIGURE 7

Reference molecule:	H44/76	1 - 105	(105 aa)	Homology
Sequence 2:	2996	1 - 105	(105 aa)	83%
Sequence 3:	870446	1 - 105	(105 aa)	83%
Sequence 4:	892257	1 - 98	(98 aa)	70%
Sequence 5:	M990	1 - 98	(98 aa)	76%
Sequence 6:	870227	1 - 108	(108 aa)	73%
Sequence 7:	S3446	1 - 108	(108 aa)	73%
Sequence 8:	M982	1 - 108	(108 aa)	70%

H44/76	PNHTRITTRGANFNFDRLAEQTLKYGINYRQZIKPQAFINSKFSIP-	(49)
2996	.....M.....	(49)
870446	.....M.....	(49)
892257	.....Q.K.ED	(50)
M990	.....M.....	(48)
870227	.....M.....	(46)
S3446	.....GE.....	(46)
M982	.....M.....	(49)

H44/76	----TTEKNGQKV---D-----KPMEQQMKDRADEDTVHAYKLSN	(83)
2996	----K....D---A-----AD..A...K..AL..S.R.T.	(83)
870446	----K....D---A-----AD..A...K..AL..S.R.T.	(83)
892257	KEKA.D.....N.EN.KIAK..R.T.	(76)
M990	----D.T.....A-----T.A.I..N....A.A.D....	(76)
870227	----IS.K.K---PKDPRKEID.TD.EKA..KK..L..S.....	(85)
S3446	----IS.K.K---PKDPKKEID.TA.EKA..KK..L..S.....	(85)
M982	----DKKPNPANPKKEI-----DAAEKE..KK..L..S.....	(85)

H44/76	PTKIDTGVYVEAIHIDIGDFTLT	(105)
2996	.....A.I....E.NG....	(105)
870446	.....A.I....E.NG....	(105)
892257A.A.I....E.DG....	(98)
M990A.I.T..E..G....	(98)
870227A.I.T..E..G....	(108)
S3446A.I.T..E.DG....	(108)
M982	.A....A.I.T.....	(108)

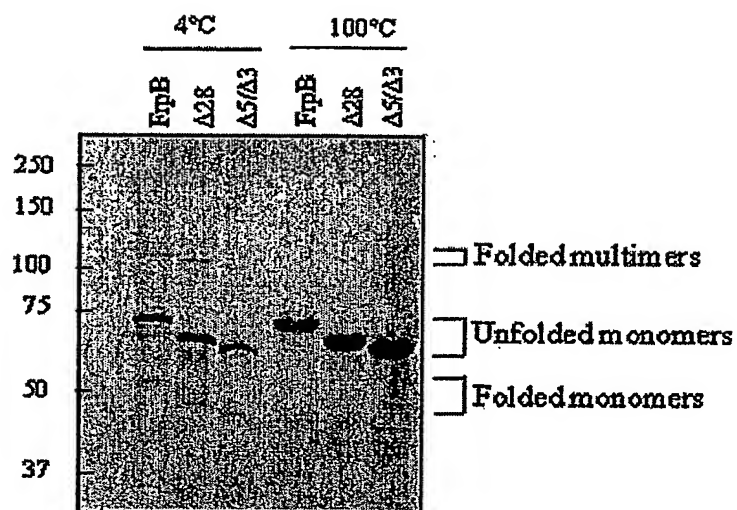
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Figure 8

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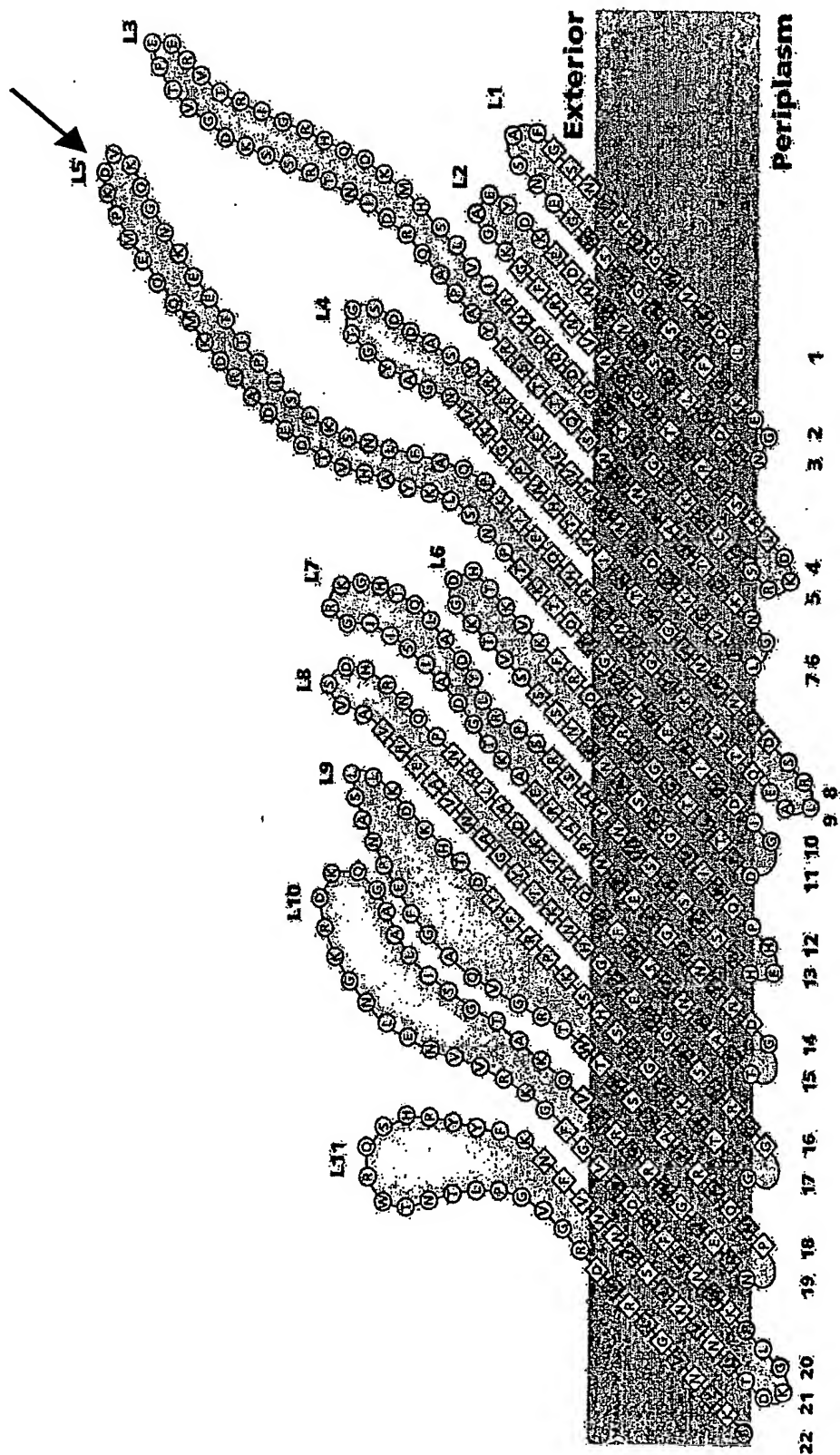


Figure 9

Figure 10A

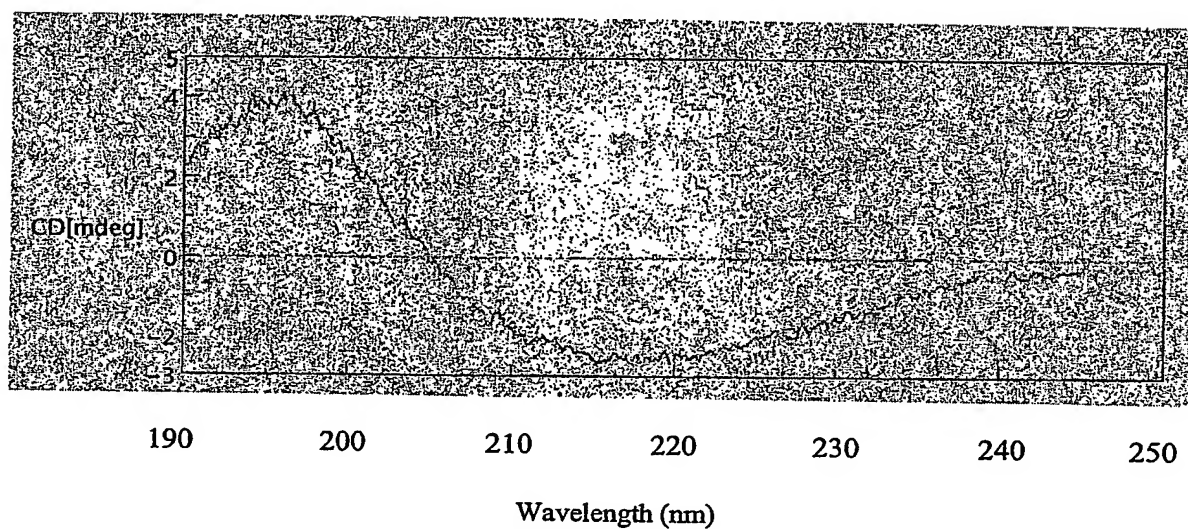
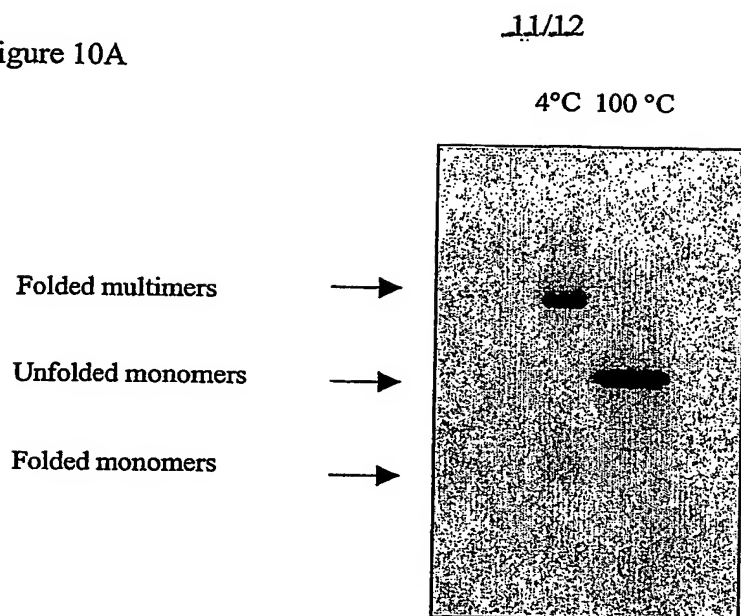


Figure 10B

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Figure 11

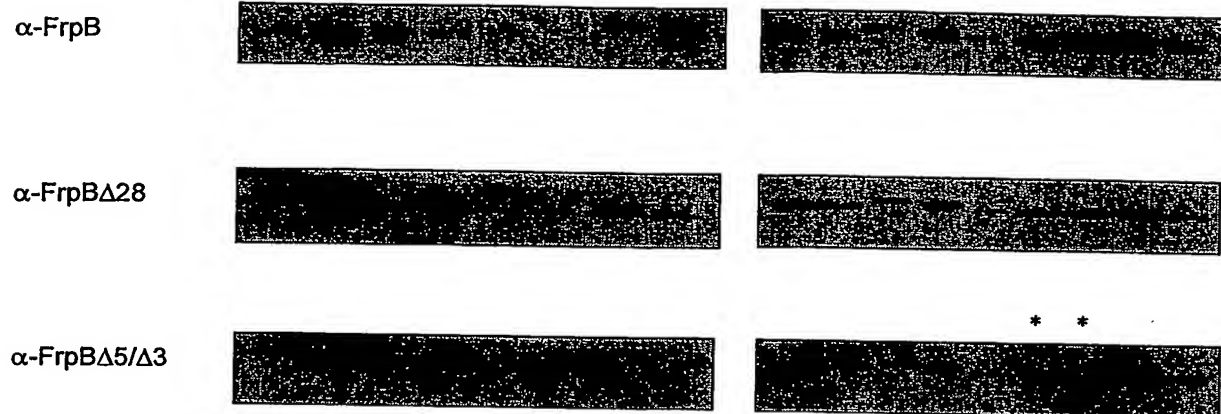
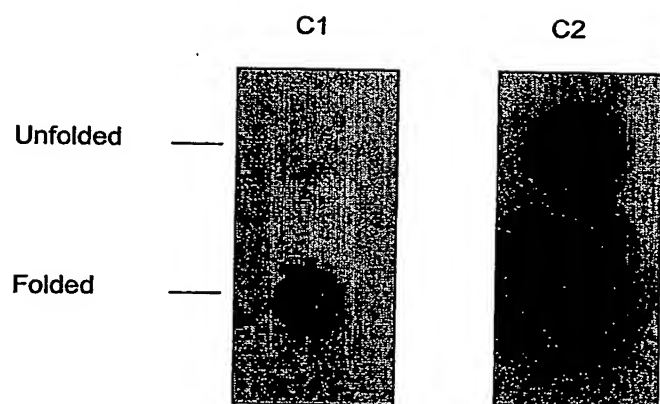


Figure 12



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